# *BRUHAT BANGALORE MAHANAGARA PALIKE*

## *YELAHANKA ZONE*

### *DIVISION: BYATARAYANAPURA*

### *SUB DIVISION: VIDYARANYAPURA*

***Name of Work:*** ***Estimate for Development of Parks and Providing Children Play and Gym Equipment's at HMT Layout in Ward No. 09 (Vidyarnayapura).***

***Job Code:*** 009-21-000007

***Estimated Cost Rs. 100.00 Lakhs***

# BRUHAT BANGALORE MAHANAGARA PALIKE

## YELAHANKA ZONE

***Name of the work:*** **Estimate for Development of Parks and Providing Children Play and Gym Equipments at HMT Layout in Ward No. 09 (Vidyarnayapura).**

| | | | | | | | Est Cost: | 9700000.00 | |
|---|---|---|---|---|---|---|---|---|---|
| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
| 1 | KSRRB M2100-6. Filling the Foundation trenches using approved sand as per Drawing and technical Specification in 250mm layers wherever necessary watering and ramming including cost of all materials, labours, HMT Complete as per specification MORTH Chapter 12 **Item No. 27.14 Page No. 221, PWD SR 2018-19** | Cum | | | | | | | |
| | Path way Repair HMT Layout | | 1 | 120.00 | 2.00 | 0.25 | 60.00 | | |
| | | | 1 | 85.00 | 2.00 | 0.25 | 42.50 | | |
| | | | 1 | 110.00 | 2.00 | 0.25 | 55.00 | | |
| | | | 1 | 95.00 | 2.00 | 0.25 | 47.50 | | |
| | Basic Rate | 3039.00 | | | | | **205.00** | 3221.34 | **660375.00** |
| | Area Weightage @ 6% | 182.34 | | | | | | | |
| | Total | **3221.34** | | | | | | | |
| 2 | KSRB 14.6-1: Providing and laying **heavy duty cobble stones 60mm thick interlock pavers**, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness ) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS. **Item No. 14.6 Page No. 103, PWD SR 2018-19** | Sqm | | | | | | | |
| | Path way Repair | | 1 | 120.00 | 2.00 | | 240.00 | | |
| | | | 1 | 85.00 | 2.00 | | 170.00 | | |
| | | | 1 | 110.00 | 2.00 | | 220.00 | | |
| | | | 1 | 95.00 | 2.00 | | 190.00 | | |
| | Basic Rate | 1053.00 | | | | | **820.00** | 1116.18 | **915268.00** |
| | Area Weightage @ 6% | 63.18 | | | | | | | |
| | Total | **1116.18** | | | | | | | |
| 3 | Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete **Page No. 27 / Item No. 5.30, PWD SR 2018-19** | No | | | | | | | |
| | | | 1 | 115.00 | | | 256 | | |
| | | | | 0.45 | | | | | |
| | | | 1 | 95.00 | | | 211 | | |
| | | | | 0.45 | | | | | |
| | | | 1 | 90.00 | | | 200 | | |
| | | | | 0.45 | | | | | |
| | | | 1 | 85.00 | | | 189 | | |
| | | | | 0.45 | | | | | |
| | Basic Rate | 408.00 | | | | | **856** | 432.48 | **370011.00** |
| | Area Weightage @ 6% | 24.48 | | | | | | | |
| | Total | **432.48** | | | | | | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 4 | KSRB 15-19.1 : Providing and applying **ready mix priming coat over** concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. **Page No. 124 / Item No. Item No. 15.80, PWD SR 2018-19** | Sqm | | | | | | | |
| | Kerb Stone Painting | | 1 | 115.00 | | 0.40 | 46.00 | | |
| | | | 1 | 95.00 | | 0.40 | 38.00 | | |
| | | | 1 | 90.00 | | 0.40 | 36.00 | | |
| | | | 1 | 85.00 | | 0.40 | 34.00 | | |
| | Basic Rate | 37.00 | | | | | **154.00** | 39.22 | **6040.00** |
| | Area Weightage @ 6% | 2.22 | | | | | | | |
| | Total | **39.22** | | | | | | | |
| 5 | KSRB 15-19.2 : Providing and applying **spray painting in two coats (excluding priming coat)** over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications.**Page No. 124 / Item No. Item No. 15.81, PWD SR 2018-19** | Sqm | | | | | | | |
| | | | Qty Vide Item No. 14 | | | | 154.00 | | |
| | Basic Rate | 85.00 | | | | | **154.00** | 90.10 | **13875.00** |
| | Area Weightage @ 6% | 5.10 | | | | | | | |
| | Total | **90.10** | | | | | | | |
| 6 | Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting ( excluding cost of earthwork and concrete) **Page No. 266 / Item No. 37.2, PWD SR 2018-19** | m | | | | | | | |
| | | | 35 | 2.40 | | | 84.00 | | |
| | | | 45 | 2.40 | | | 108.00 | | |
| | | | 25 | 2.40 | | | 60.00 | | |
| | | | 22 | 2.40 | | | 52.80 | | |
| | Basic Rate | 859.00 | | | | | **304.80** | 910.54 | **277533.00** |
| | Area Weightage @ 6% | 51.54 | | | | | | | |
| | Total | **910.54** | | | | | | | |
| 7 | Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint. **Page No. 266 / Item No. 37.4, PWD SR 2018-19** | m | | | | | | | |
| | | | 3 | 45.00 | | | 135.00 | | |
| | | | 3 | 35.00 | | | 105.00 | | |
| | | | 3 | 25.00 | | | 75.00 | | |
| | | | 3 | 27.00 | | | 81.00 | | |
| | Basic Rate | 408.00 | | | | | **396.00** | 432.48 | **171262.00** |
| | Area Weightage @ 6% | 24.48 | | | | | | | |
| | Total | **432.48** | | | | | | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 8 | Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint **Page No. 266 / Item No. 37.3, PWD SR 2018-19** | Sqm | | | | | | | |
| | | | 1 | 45.00 | | 1.50 | 67.50 | | |
| | | | 1 | 35.00 | | 1.50 | 52.50 | | |
| | | | 1 | 25.00 | | 1.50 | 37.50 | | |
| | | | 1 | 27.00 | | 1.50 | 40.50 | | |
| | Basic Rate | 715.00 | | | | | **198.00** | 757.90 | **150064.00** |
| | Area Weightage @ 6% | 42.90 | | | | | | | |
| | Total | **757.90** | | | | | | | |
| | **For Gym Equipments Work** | | | | | | | | |
| 9 | KSRB 2-1.1 : Earthwork in surface excavation in **ordinary soil** for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1(a) / 2.3.1 **Page No. 6 / Item No. 2.1 of PWD SR 2018-19** | Cum | | | | | | | |
| | | | 2 | 15.00 | 6.00 | 0.20 | 36.00 | | |
| | | | 2x2 | 15.00 | 0.75 | 0.55 | 24.75 | | |
| | | | 2x2 | 6.00 | 0.75 | 0.55 | 9.90 | | |
| | Basic Rate | 249.00 | | | | | **70.65** | 352.14 | **24879.00** |
| | Area Weightage @ 6% | 14.94 | | | | | | | |
| | **Total** | **263.94** | | | | | | | |
| | Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.30 TX 10.00Km X 2.0/km= 26.0 | 26.00 | | | | | | | |
| | Add loading and unloading Charges **It No 17.1 KSRRB M 100-1** | 62.20 | | | | | | | |
| | | **352.14** | | | | | | | |
| 10 | KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.13, Item No. 4.3 of PWD SR 2018-19** | Cum | | | | | | | |
| | | | 2x2 | 15.00 | 0.60 | 0.15 | 5.40 | | |
| | | | 2x2 | 6.00 | 0.60 | 0.15 | 2.16 | | |
| | Basic Rate | 5102.00 | | | | | **7.56** | 5408.12 | **40885.00** |
| | Area Weightage @ 6% | 306.12 | | | | | | | |
| | **Total** | **5408.12** | | | | | | | |
| 11 | KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6, stone** hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 25 / Item No. 5.6, PWD SR 2018-19** | Cum | | | | | | | |
| | | | 2x2 | 15.00 | 0.60 | 0.45 | 16.20 | | |
| | | | 2x2 | 6.00 | 0.60 | 0.45 | 6.48 | | |
| | Basic Rate | 4596.00 | | | | | **22.68** | 4871.76 | **110492.00** |
| | Area Weightage @ 6% | 275.76 | | | | | | | |
| | **Total** | **4871.76** | | | | | | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 12 | KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 25 / Item No. 5.9, PWD SR 2018-19** | Cum | | | | | | | |
| | | | 2x2 | 15.00 | 0.45 | 0.45 | 12.15 | | |
| | | | 2x2 | 6.00 | 0.45 | 0.45 | 4.86 | | |
| | Basic Rate | 5483.00 | | | | | **17.01** | 5811.98 | **98862.00** |
| | Area Weightage @ 6% | 328.98 | | | | | | | |
| | **Total** | **5811.98** | | | | | | | |
| 13 | Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. – do – cement mortar 1:3 **Page. No. 255 / Item No.34.12.2 of PWD SR 2018-19** | sqm | | | | | | | |
| | | | 2x2 | 15.00 | | 0.45 | 27.00 | | |
| | | | 2x2 | 6.00 | | 0.45 | 10.80 | | |
| | Basic Rate | 95.00 | | | | | **37.80** | 100.70 | **3806.00** |
| | Area Weightage @ 6% | 5.70 | | | | | | | |
| | **Total** | **100.70** | | | | | | | |
| 14 | KSRRB M2100 Filling the foundations KSRRB 2100-6. Filling the foundations trenches using approved sand as per drawing and technical specifications in 250mm layers, wherever necessary watering and ramming, including cost of all materials, labour complete as per specifications. MORTH Chapter 12 **Item No. 27.14 Page No. 221, PWD SR 2018-19** | cum | | | | | | | |
| | | | 2 | 15.00 | 6.00 | 0.20 | 36.00 | | |
| | Basic Rate | 3039.00 | | | | | **36.00** | 3221.34 | **115968.00** |
| | Area Weightage @ 6% | 182.34 | | | | | | | |
| | **Total** | **3221.34** | | | | | | | |
| 15 | KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.13, Item No. 4.6 PWD SR 2018-19** | Cum | | | | | | | |
| | | | 2x2 | 15.00 | 0.45 | 0.10 | 2.70 | | |
| | | | 2x2 | 6.00 | 0.45 | 0.10 | 1.08 | | |
| | | | 2 | 15.00 | 6.00 | 0.10 | 18.00 | | |
| | Basic Rate | 5483.00 | | | | | **21.78** | 5811.98 | **126585.00** |
| | Area Weightage @ 6% | 328.98 | | | | | | | |
| | **Total** | **5811.98** | | | | | | | |
| 16 | Providing and laying flooring using **prepolished, water cut/gang saw 19mm thick granite** laid over bed of 20mm thick 1:4 cm & jointed with neat cement slurry mixed with pigment to mach shade of granite slabs including laying POP on finished surface and cleaning the surface, including the cost of all materials and labours etc., complete as per specifications. - **using silver grey granite / Multy Red / Ruby Red / Black / HassanGreen Granite of width not less than 1200 mm (P.No.109, I.No.14.47.1 of PWD SR 2018-19)** | Sqm | | | | | | | |
| | | | 2 | 15.00 | 6.00 | | 180.00 | | |
| | Basic Rate | 2739.00 | | | | | **180.00** | 2903.34 | **522601.00** |
| | Area Weightage @ 6% | 164.34 | | | | | | | |
| | **Total** | **2903.34** | | | | | | | |
| | **Gym Equipments:** | | | | | | | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 17 | Supply and fixing of pull down challenger: Metal All tubular steel of 2.50 mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as neccessary and welded to an approved MIG process. All welds are dressed off removing all sharp edgesand burrs. Zinc primer paint is applied at all the welding points prior to fixing. All metal parts are powder coated using AKZO nobel Great wall powder to the thickness of 80-120 microns. All metals parts are tested in our salt spray machine that uses a 5% Na Cl Solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber : 1 completely pre assembled equipment modules. Maintenance: Maintain according to EN 16630 EN16630 safety standard with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV CPSC or SGS only. The GS Marks EN16630 certificates must be in the name of tendering pat and not 3rd party. All products must learly disply the GS mark as has been issued in the EN16630 saftey certificates. Size (1xWxH): 2015x615x1360mm weight :93 kg safety Area 5015x3015 mm capacity_2 persons .): | Nos | | | | | | | |
| | | | 2 | | | | **2** | 239400.00 | **478800.00** |
| 18 | Supply and fixing of Seated Chest Press Metal All tubular steel of 2.5 mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edgesand burrs. Zinc primer paint is applied at all the welding points prior to fixning. All metal parts are powder coated using AKZO nobel Great wall powder to the thickness of 80-120 microns. All metals parts are tested in our salt spray machine that uses a 5% NaCl Solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber : 1 completely pre assembled equipment modules. Maintenance: Maintain according to EN 16630 EN16630 safety standard with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV CPSC or SGS only. The GS Marks EN16630 certificates must be in the name of tendering pat and not 3rd party. All products must clearlearly disply the GS mark as has been issued in the EN16630 saftey certificates. Size (1xWxH): 2015x615x1360mm weight :93 kg safety Area 5015x3015 mm capacity_2 person | Each | | | | | | | |
| | | | 2 | | | | **2** | 229425.00 | **458850.00** |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 19 | Supply and fixing of Self Weighted Rower All tubular steel of 2.5 mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edgesand burrs. Zinc primer paint is applied at all the welding points prior to fixning. All metal parts are powder coated using AKZO nobel Great wall powder to the thickness of 80-120 microns. All metals parts are tested in our salt spray machine that uses a5% Na Cl Solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber : 1 completely pre assembled equipment modules. Maintenance: Maintain accoring to EN 16630 EN16630 safety standard with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV CPSC or SGS only. The GS Marks EN16630 certificates must be in the name of tendering pat and not 3rd party. All products must clearly diptes must be in the name of tendering pat and not 3rd party. All products must clearly diply the GS mark as has been issued in the EN16630 saftey certificates. | Each | | | | | | | |
| | | | 2 | | | | 2 | 164587.50 | **329175.00** |
| 20 | Supply and fixing of Elliptical cross Trainer metalAll tubular steel of 2.5 mm thickness are galavnized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edgesand burrs. Zinc primer paint is applied at all the welding points prior to fixning. All metal parts are powder coated using AKZO nobel Great wall powder to the thickness of 80-120 microns. All metals parts are tested in our salt spray machine that uses a5% Na Cl Solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber : 1 completely pre assembled equipment modules. Maintenance: Maintain accoring to EN 16630 EN16630 safety standard with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV CPSC or SGS only. The GS Marks EN16630 certificates must be in the name of tendering pat and not 3rd party. All products must ctes must be in the name of tendering pat and not 3rd party. All products must clearly diply the GS mark as has been issued in the EN16630 saftey certificates. Size (LxWx | Nos | | | | | | | |
| | | | 2 | | | | 2 | 139650.00 | **279300.00** |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 21 | Supply and fixing of Rider metal All tubular steel of 2.5 mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edgesand burrs. Zinc primer paint is applied at all the welding points prior to fixning. All metal parts are powder coated using AKZO nobel Great wall powder to the thickness of 80-120 microns. All metals parts are tested in our salt spray machine that uses a5% Na Cl Solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber : 1 completely pre assembled equipment modules. Maintenance: Maintain accoring to EN 16630 EN16630 safety standard with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV CPSC or SGS only. The GS Marks EN16630 certificates must be in the name of tendering pat and not 3rd party. All products must clearly disply the learly disply the GS mark as has been issued in the EN16630 saftey certificates. Size (1xWxH): 2015x615x1360mm weight :93 kg safety Area 5015x3015 mm c | Nos | | | | | | | |
| | | | 2 | | | | **2** | 89775.00 | **179550.00** |
| 22 | Supply and fixing of Bicycle Metal: All tubular steel of 2.5 mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edgesand burrs. Zinc primer paint is applied at all the welding points prior to fixning. All metal parts are powder coated using AKZO nobel Great wall powder to the thickness of 80-120 microns. All metals parts are tested in our salt spray machine that uses a5% Na Cl Solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber : 1 completely pre assembled equipment modules. Maintenance: Maintain accoring to EN 16630 EN16630 safety standard with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV CPSC or SGS only. The GS Marks EN16630 certificates must be in the name of tendering pat and not 3rd party. All products must clearly disply tlearly disply the GS mark as has been issued in the EN16630 saftey certificates. Size (1xWxH): 2015x615x1360mm weight :93 kg safety Area 5015x3015 mm capaci | Each | | | | | | | |
| | | | 2 | | | | **2** | 124687.50 | **249375.00** |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 23 | Supply and fixing of Twist Stepper All tubular steel of 2.5 mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edgesand burrs. Zinc primer paint is applied at all the welding points prior to fixning. All metal parts are powder coated using AKZO nobel Great wall powder to the thickness of 80-120 microns. All metals parts are tested in our salt spray machine that uses a5% Na Cl Solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber : 1 completely pre assembled equipment modules. Maintenance: Maintain according to EN 16630 EN16630 safety standard with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV CPSC or SGS only. The GS Marks EN16630 certificates must be in the name of tendering pat and not 3rd party. All products must clearly disply ttes must be in the name of tendering pat and not 3rd party. All products must clearly diply the GS mark as has been issued in the EN16630 saftey certif | Each | | | | | | | |
| | | | 2 | | | | **2** | 179550.00 | **359100.00** |
| 24 | Supply and fixing of Big shoulder wheel All tubular steel of 2.5 mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edgesand burrs. Zinc primer paint is applied at all the welding points prior to fixning. All metal parts are powder coated using AKZO nobel Great wall powder to the thickness of 80-120 microns. All metals parts are tested in our salt spray machine that uses a5% Na Cl Solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber : 1 completely pre assembled equipment modules. Maintenance: Maintain accoring to EN 16630 EN16630 safety standard with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV CPSC or SGS only. The GS Marks EN16630 certificates must be in the name of tendering pat and not 3rd party. All products must clearly disptes must be in the name of tendering pat and not 3rd party. All products must clearly diply the GS mark as has been issued in the EN16630 saftey certificates. | Each | | | | | | | |
| | | | 2 | | | | **2** | 119700.00 | **239400.00** |
| | | | | | | | | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 25 | Supply and fixing HD Health Walker All tubular steel of 2.5 mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edgesand burrs. Zinc primer paint is applied at all the welding points prior to fixning. All metal parts are powder coated using AKZO nobel Great wall powder to the thickness of 80-120 microns. All metals parts are tested in our salt spray machine that uses a5% Na Cl Solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber : 1 completely pre assembled equipment modules. Maintenance: Maintain accoring to EN 16630 EN16630 safety standard with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV CPSC or SGS only. The GS Marks EN16630 certificates must be in the name of tendering pat and not 3rd party. All products must clearly disply thtes must be in the name of tendering pat and not 3rd party. All products must clearly diply the GS mark as has been issued in the EN16630 saftey certific | Each | | | | | | | |
| | | | 2 | | | | **2** | 139650.00 | **279300.00** |
| 26 | Supply and fixing HD Squat Pushing Metal: All tubular steel of 2.5 mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edgesand burrs. Zinc primer paint is applied at all the welding points prior to fixning. All metal parts are powder coated using AKZO nobel Great wall powder to the thickness of 80-120 microns. All metals parts are tested in our salt spray machine that uses a5% Na Cl Solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber : 1 completely pre assembled equipment modules. Maintenance: Maintain accoring to EN 16630 EN16630 safety standard with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV CPSC or SGS only. The GS Marks EN16630 certificates must be in the name of tendering pat and not 3rd party. All products must clearly dites must be in the name of tendering pat and not 3rd party. All products must clearly diply the GS mark as has been issued in the EN16630 saftey certificates. Size | Each | | | | | | | |
| | | | 2 | | | | **2** | 214462.50 | **428925.00** |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 27 | Supply and fixing Mini Ski. Metal: All tubular steel of 2.5 mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edgesand burrs. Zinc primer paint is applied at all the welding points prior to fixning. All metal parts are powder coated using AKZO nobel Great wall powder to the thickness of 80-120 microns. All metals parts are tested in our salt spray machine that uses a5% Na Cl Solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber : 1 completely pre assembled equipment modules. Maintenance: Maintain accoring to EN 16630 EN16630 safety standard with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV CPSC or SGS only. The GS Marks EN16630 certificates must be in the name of tendering pat and not 3rd party. All products must clearly diply thelearly disply the GS mark as has been issued in the EN16630 saftey certificates. Size (1xWxH): 2015x615x1360mm weight :93 kg safety Area 5015x3015 mm cap | Each | | | | | | | |
| | | | 2 | | | | 2 | 159600.00 | **319200.00** |
| 28 | Supply and fixing of HD Double Health Walker Metal: All tubular steel of 2.5 mm thickness are galvanized and zinc dipped. Joints are Robotic welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edgesand burrs. Zinc primer paint is applied at all the welding points prior to fixing. All metal parts are powder coated using AKZO nobel Great wall powder to the thickness of 80-120 microns. All metals parts are tested in our salt spray machine that uses a5% Na Cl Solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber : 1 completely pre assembled equipment modules. Maintenance: Maintain accoring to EN 16630 EN16630 safety standard with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV CPSC or SGS only. The GS Marks EN16630 certificates must be in the name of tendering pat and not 3rd party. All products must clearly disply the GS mark as has been issued in the EN16630 saftey certificates. Size (1xWxH): 2015x615x1360mm weight :93 kg safety Area 5015x3015 mm capacity_2 persons . | Each | | | | | | | |
| | | | 2 | | | | **2** | 239400.00 | **478800.00** |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 29 | Supply and fixing of HD Waist Twister Metal: All tubular steel of 2.5mm thickness are galvanized and zinc dipped joints are robotic welded all welded joints are scalloped as necessary and welded to an approved MIG process All welds are dressed off removing all sharp edges and burrs Zonc primer paint is applied at all the welding points prior to finishing all metal parts are powder coated using AKZO Nobel Grate wall powder to the thickness of 80-120 microns all metal parts are tested in our salt spray machine that uses a 5% NACI solution in accordance to ISO7227 to speed up corrosion for 3000 hrs Rubber: High quality grip rubber is used for the handles Bearings: Maintenance free ball berings Scope of delivery 1 Completely pre assembled equipment modules Maintenance: Maintenance: Maintain accoring to EN 16630 EN16630 safety standard with GS test mark. The EN 16630 certificates must be issued by a reputed notified international certifying agency such as IPEMA, TUV CPSC or SGS only. The GS Marks EN16630 certificates must be in the name of tendering pat and not 3rd party. All products must clearly diply the GS mark as has been issued in the EN16630 saftey certificates. Size (LxWxH): 1460 x 1310 x 1150 mm weight : 39.1 kg safety Area 4360 x 4510 mm capacity_3 persons . | Each | | | | | | | |
| | | | 2 | | | | **2** | 130000.00 | **260000.00** |
| 30 | Supplying of Granite benches as per approved drawing including cost of steel, materials, labour, transportation etc complete as per specification (Approved Rate) | Nos | | | | | | | |
| | | | 5 | | | | **5** | 10500.00 | **52500.00** |
| | Basic Rate | 10500.00 | | | | | | | |
| | **For Children Play Equipments** | | | | | | | | |
| 31 | KSRB 2-1.1 : Earthwork in surface excavation in **ordinary soil** for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications. specification. No. KBS 2.1(a) / 2.3.1 **Page No. 6 / Item No. 2.1 of PWD SR 2018-19** | Cum | | | | | | | |
| | | | 1 | 15.00 | 6.00 | 0.20 | 18.00 | | |
| | | | 2 | 15.00 | 0.75 | 0.45 | 10.13 | | |
| | | | 2 | 6.00 | 0.75 | 0.45 | 4.05 | | |
| | Basic Rate | 249.00 | | | | | **32.18** | 352.14 | **11330.00** |
| | Area Weightage @ 6% | 14.94 | | | | | | | |
| | **Total** | **263.94** | | | | | | | |
| | Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.30 TX 10.00Km X 2.0/km= 26.0 | 26.00 | | | | | | | |
| | Add loading and unloading Charges **It No 17.1 KSRRB M 100-1** | 62.20 | | | | | | | |
| | | **352.14** | | | | | | | |
| 32 | KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.13, Item No. 4.3 of PWD SR 2018-19** | Cum | | | | | | | |
| | | | 2 | 15.00 | 0.60 | 0.15 | 2.70 | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | | 2 | 6.00 | 0.60 | 0.15 | 1.08 | | |
| | Basic Rate | 5102.00 | | | | | **3.78** | 5408.12 | **20443.00** |
| | Area Weightage @ 6% | 306.12 | | | | | | | |
| | **Total** | **5408.12** | | | | | | | |
| 33 | KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6, stone** hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 25 / Item No. 5.6, PWD SR 2018-19** | Cum | | | | | | | |
| | | | 2 | 15.00 | 0.60 | 0.45 | 8.10 | | |
| | | | 2 | 6.00 | 0.60 | 0.45 | 3.24 | | |
| | Basic Rate | 4596.00 | | | | | **11.34** | 4871.76 | **55246.00** |
| | Area Weightage @ 6% | 275.76 | | | | | | | |
| | **Total** | **4871.76** | | | | | | | |
| 34 | KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 **Page No. 25 / Item No. 5.9, PWD SR 2018-19** | Cum | | | | | | | |
| | | | 2 | 15.00 | 0.45 | 0.45 | 6.08 | | |
| | | | 2 | 6.00 | 0.45 | 0.45 | 2.43 | | |
| | Basic Rate | 5483.00 | | | | | **8.51** | 5811.98 | **49431.00** |
| | Area Weightage @ 6% | 328.98 | | | | | | | |
| | **Total** | **5811.98** | | | | | | | |
| 35 | Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. – do – cement mortar 1:3 **Page. No. 255 / Item No.34.12.2 of PWD SR 2018-19** | sqm | | | | | | | |
| | | | 2 | 15.00 | | 0.45 | 13.50 | | |
| | | | 2 | 6.00 | | 0.45 | 5.40 | | |
| | Basic Rate | 95.00 | | | | | **18.90** | 100.70 | **1903.00** |
| | Area Weightage @ 6% | 5.70 | | | | | | | |
| | **Total** | **100.70** | | | | | | | |
| 36 | KSRRB M2100 Filling the foundations KSRRB 2100-6. Filling the foundations trenches using approved sand as per drawing and technical specifications in 250mm layers, wherever necessary watering and ramming, including cost of all materials, labour complete as per specifications. MORTH Chapter 12 **Item No. 27.14 Page No. 221, PWD SR 2018-19** | cum | | | | | | | |
| | | | 1 | 15.00 | 6.00 | 0.25 | 22.50 | | |
| | Basic Rate | 3039.00 | | | | | **22.50** | 3221.34 | **72480.00** |
| | Area Weightage @ 6% | 182.34 | | | | | | | |
| | **Total** | **3221.34** | | | | | | | |
| 37 | KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.13, Item No. 4.6 PWD SR 2018-19** | Cum | | | | | | | |
| | | | 2 | 15.00 | 0.45 | 0.10 | 1.35 | | |
| | | | 2 | 6.00 | 0.45 | 0.10 | 0.54 | | |
| | Basic Rate | 5483.00 | | | | | **1.89** | 5811.98 | **10985.00** |
| | Area Weightage @ 6% | 328.98 | | | | | | | |
| | **Total** | **5811.98** | | | | | | | |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | **Children Play Equipments:** | | | | | | | | |
| 38 | **Providing Children play standard Sea Saw Seater Equipment** : This equipment is made up of main beam 50mm MS pipe 'A' class of length 98mtr with two handles welded at the ends as a hand are made of 20mm 'A' class pipe. The main beam is pivoted to the bottom supports of 40mm MS pipes by bush bearing clamped by pivot joints which swivel over 28mm dia steel shaft which gets installed in the ground by meas of concrete 2 Nos. seats are made of 250 mm x 200 mm x 18 SWG MS sheets with T hand rest at the front. Air pipe are if ISI grade. All the pipes are painted with two coats of super set paint over a coat of protective Zinc chromate yellow oxide including fixing the play equipments in CC 1:2:4, curing etc., complete with all lead, lift, loading, unloading and any other incidental charges and as perthe draing and specification and direction of the engineer in charge of the work. | Each | 1 | | | | 1 | 28000.00 | **28000.00** |
| 39 | **Providing Children play Merry-go-Round equipment** : Made of MS 'A' Class pipes. Main pillars in 100 mm dia fitted with shaft and two bearing the other cross members are in 25 & 20 mm MS A Class pipe the bottom ring is made out of 25mm of ring size is 1.20 mts dia fitted with four seats are in mental sats if 250 x 200 x 18 SWG handles are made out of 20mm NB pipes and othe supports are in 25mm MS 'A' Class pipes. All the pipes are painted with two coats of super set paint over a coat of protective Zinc chromate yellow oxide including fixing the play equipments in CC 1:2:4, curing etc., complete with all lead, lift, loading, unloading and any other incidental charges and as perthe draing and specification and direction of the engineer in charge of the work. | Each | 1 | | | | 1 | 28000.00 | **28000.00** |
| 40 | **Providing Children Play 2 - Seater Swing** : This Swing consosts of 2 Nos, seat of solid fibbed FP of size 480 mm x 180 mm x 3.5 mm supported by MS chains. The chains are supported by circular housing with bearing from which the chain in suspended. The main beam is of 50 mm MS 'A' class pipe Size of MS chain 30 mm x 20 mm x 5mm thick The 2 Nos inverted 'V' beams are of 50 mm 'A' class pipes secured at the top the main beam by means of CI castings (Heavy duty for elders) All pipes are of ISI grade all the pipes are painted with two coats of super set paitng over a coat of protective Zinc chromate yellow oxide including fixing the play equipments in CC 1:2:4, curing etc., complete with all lead, lift, loading, unloading and any other incidental charges and as perthe draing and specification and direction of the engineer in charge of the work. | Each | 1 | | | | 1 | 46000.00 | **46000.00** |

| Sl No | Description of item | Unit | No | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 41 | **Providing Children Play Standard Swing : This Swing consists of 2 Nos**, seat of solid fibbed FP of size 480 mm x 180 mm x 3.5 mm supported by MS chains. The chains are supported by circular housing with bearing from which the chain in suspended. The main beam is of 50 mm MS 'A' class pipe Size of MS chain 30 mm x 20 mm x 5mm thick The 2 Nos inverted 'V' beams are of 50 mm 'A' class pipes secured at the top the main beam by means of CI castings (Heavy duty for elders) All pipes are of ISI grade all the pipes are painted with two coats of super set paitng over a coat of protective Zinc chromate yellow oxide including fixing the play equipments in CC 1:2:4, curing etc., complete with all lead, lift, loading, unloading and any other incidental charges and as perthe draing and specification and direction of the engineer in charge of the work. | Each | | | | | | | |
| | | | 1 | | | | 1 | 56000.00 | **56000.00** |
| 42 | Duck wheel | Each | | | | | | | |
| | | | 1 | | | | 1 | 68000.00 | **68000.00** |
| 43 | Mini Wheel | Eac | | | | | | | |
| | | | 1 | | | | 1 | 23000.00 | **23000.00** |
| 44 | Duck Swing (2 seater) | Each | | | | | | | |
| | | | 1 | | | | 1 | 56000.00 | **56000.00** |
| 45 | FRP Mini Slide | Each | | | | | | | |
| | | | 1 | | | | 1 | 23000.00 | **23000.00** |
| 46 | Mini Slide | Each | | | | | | | |
| | | | 1 | | | | 1 | 16000.00 | **16000.00** |
| 47 | Jack Frame | Each | | | | | | | |
| | | | 1 | | | | 1 | 14000.00 | **14000.00** |
| 48 | Nest | Each | | | | | | | |
| | | | 1 | | | | 1 | 24000.00 | **24000.00** |
| 49 | Bear | Each | | | | | | | |
| | | | 1 | | | | 1 | 19000.00 | **19000.00** |
| 50 | Spring Duck | Each | | | | | | | |
| | | | 1 | | | | 1 | 36000.00 | **36000.00** |
| | | | | | | | | | |
| | **Sub Total A** | | | | | | | | **8659599.00** |
| | **GST @ 12%** | | | | | | | | **1039152.00** |
| | **Miscellaneous and Unforeseen Charges** | L/S | | | | | | | **1249.00** |
| | | | | | | | | **Total** | **9700000.00** |

**Rupees Ninety Seven Lakh(s) Only**

ADMINISTRATIVE APPROVAL
Accorded For Rs. 9700 Lakhs.
Head of A/c. P-3215
Div. Ref. No. 49/8-10-20 Date 8/10/20
AE 8/10 EE(BTP) 8/10

**CERTIFICATE:**

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR 2018-19 & Approved Rates.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
30/09

Technical Sanction
Accorded For RS97.00Lakhs
Head of A/C P-3215
CER NO : 134 Dt: 09.11.2020
TA CE(YNK)